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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/705,552	11/11/2003	Kiyoshi Hirata	09792909-5727	5105			
26263	26263 7590 04/14/2005			EXAMINER			
	CHEIN NATH & ROS	MULPURI,	MULPURI, SAVITRI				
P.O. BOX 00		ART UNIT	PAPER NUMBER				
WACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080			2812				
			DATE MAILED: 04/14/2009	5			

Please find below and/or attached an Office communication concerning this application or proceeding.

	<del></del>	Appli	cation No	Appli	icant(c)					
		Арри	Application No.		Applicant(s)					
Office Action Summary		10/70	05,552	HIRA	TA, KIYOSHI	- (	Pin			
		Exam	iner	Art U	nit					
			i Mulpuri	2812						
Period fo	The MAILING DATE of this commu or Reply	nication appears o	n the cover shee	et with the corresp	ondence addr	ress				
THE   - External after   - If the   - If NO   - Failu   Any I	ORTENED STATUTORY PERIOD IN MAILING DATE OF THIS COMMUN INSIGHTS of time may be available under the provision SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty (1) period for reply is specified above, the maximum is the toreply within the set or extended period for reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In munication. 30) days, a reply within the tatutory period will apply by will, by statute, cause the	no event, however, m e statutory minimum o and will expire SIX (6) e application to becor	ay a reply be timely filed of thirty (30) days will be on MONTHS from the mailing ABANDONED (35 U.	considered timely. ing date of this come S.C. § 133).	municatio	n.			
Status				•						
1)⊠	Responsive to communication(s) fil	ed on 28 Februar	/ 2005.							
2a)□	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.									
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims									
5)□ 6)⊠ 7)□	Claim(s) 1-5 is/are pending in the application.  4a) Of the above claim(s) 6-20 is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1-5 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.									
Applicat	ion Papers									
•	The specification is objected to by the drawing(s) filed on is/are		or b) Objected	d to by the Exami	ner.					
٠,٣	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11)	Replacement drawing sheet(s) includin The oath or declaration is objected	•	•	• • • •		•	d).			
·	ınder 35 U.S.C. § 119	•				,				
12)⊠ a)	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internations of the attached detailed Office activities.	or documents have or documents have sof the priority doc onal Bureau (PCT	been received, been received cuments have b Rule 17.2(a)).	in Application No een received in th	·	tage				
2) Notice 3) Information	t(s)  e of References Cited (PTO-892)  e of Draftsperson's Patent Drawing Review ( mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		Paper	iew Summary (PTO-4 · No(s)/Mail Date e of Informal Patent A :	<u> </u>	152)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Inagaki (US 6,765246).

Inagaki teaches a method for manufacturing a solid state imaging device comprising the steps of: forming a photo sensor "8"in the surface of a substrate; and forming a channel stop sections as first channel stop region and second channel stop regions "12, 13" on the side of the photo sensor "8" in the substrate by multiple times of the ion implantation5in multiple or equal implantation area either with multiple concentrations or equal ion concentration

With respect to claims 2,4 multiple implantation energies to form channel stop regions 13a, 13b, 13 c with different concentrations (see fig. 6 and related description).

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With respect to claims 3, 5 multiple implantations in the in the equal area and same concentrations see channel stop regions "13" on each side of the photosensitive region (see fig.3 and related description).

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Prior art teaches image sensor devices.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 a.m to 4.30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Savitri Mulpuri Primary Examiner Art Unit 2812